

Laboratory Accreditation Programmes

Schedule to
CERTIFICATE OF ACCREDITATION

<p>Eurofins ELS Wellington</p> <p>PO Box 36105, Wellington Mail Centre, Lower Hutt, 5045 85 Port Rd, Seaview, Lower Hutt, 5010</p> <p>Telephone 04 576-5016</p>	<p>Client No. 1701</p> <p>www.eurofins.co.nz</p>
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Authorised Representative
 Mr Rob Deacon
 General Manager - Environmental

Programme
 Drinking Water Testing Laboratory

Accreditation Number 787 **Initial Accreditation Date 14 January 2002**

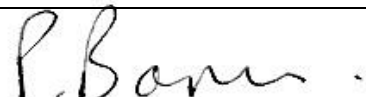
Conformance Standard
 NZS ISO/IEC 17025:2005
 General requirements for the competence of testing and calibration laboratories
 Drinking-Water Standards for New Zealand 2005 (Revised 2008)

Testing Services Summary

1.12	Waters (NZ Drinking Water Standards - Microbiology)
2.41	Waters (NZ Drinking Water Standards - Chemistry)

Key Technical Personnel

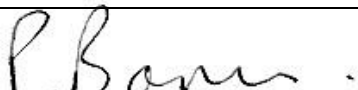
Mr Rob Deacon	1.12 (selected)
Mrs Saadia Maqsood	1.12 (selected)
Ms Julie McMillan	1.12 (selected)
Mrs Maria Norris	1.12
Mrs Sunita Raju	1.12
Mrs Pathma Ranjanie	1.12 (selected)
Mrs Juana Tamayo	1.12 (selected)
Mrs Yuemei Yu	1.12 (selected)
Ms Mary-Lou Cabral	2.41 (selected)
Mr Wayne Edgerley	2.41 (selected)
Mrs Ganeswary Ilancko	2.41 (selected)
Mr Amitesh Kumar	2.41 (selected)
Mr Shanel Kumar	2.41
Mrs Divina Lagazon	2.41 (selected)
Mr Gordon McArthur	2.41 (selected)
Ms Tracy Morrison-Judd	2.41 (selected)

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Dr Alan Stanley	2.41 (selected)
Mrs Sharon van Soest	2.41 (selected)
Ms Joanna Yang	2.41 (selected)
Mr Shuyu Zhao	2.41 (selected)

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Eurofins ELS
Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

The following scope of accreditation provides for the testing of potable waters for the purpose of assessing compliance with the Drinking-Water Standards for New Zealand 2005 (Revised 2008)

1.12 Waters (NZ Drinking Water Standards - Microbiology)

(a) Potable waters

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
Total coliforms - Colilert MPN	9223 B	COLILE
Total coliforms - Colilert P/A	9223 B	COLILE
Total coliforms - Colilert Quantitray	9223 B	ColiQT
Total coliforms - Colilert Quantitray (51 well)	9223 B	ColiQT
Total coliforms - Colilert-18 Quantitray (51 well)	9223 B	Co18QT
Total coliforms - ColiTag P/A	ColiTag	ColTag
Total coliforms - Merck ReadyCult P/A	ReadyCult	ReadyC
Total coliforms - MF	9222 B	MF
Faecal coliforms - MF	9222 D	MF
<i>E coli</i> - Colilert MPN	9223 B	COLILE
<i>E coli</i> - Colilert P/A	9223 B	COLILE
<i>E coli</i> - Colilert Quantitray	9223 B	ColiQT
<i>E coli</i> - Colilert Quantitray (51 well)	9223 B	ColiQT
<i>E coli</i> - Colilert-18 Quantitray (51 well)	9223 B	Co18QT
<i>E coli</i> - ColiTag P/A	ColiTag	ColTag
<i>E coli</i> - MF	9222 G	MF
<i>E coli</i> - Merck ReadyCult P/A	ReadyCult	ReadyC
Giardia, Cryptosporidium	EPA 1623(mod)	FIMFCS

2.41 Waters (NZ Drinking Water Standards – Chemistry)

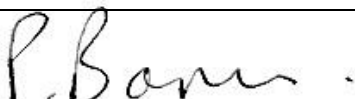
(a) Potable waters

CHEMICAL METHODS FOR MICROBIOLOGICAL COMPLIANCE

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
Temperature	2550 B	THERM
Free available chlorine	4500-Cl F	DPD

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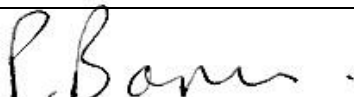
pH 4500-H B PHM

INORGANIC DETERMINANDS

In accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
Antimony	3125 B	ICPMS
Arsenic	3120 B	ICPOES
Arsenic	3125 B	ICPMS
Barium	3120 B	ICPOES
Barium	3125 B	ICPMS
Boron	3120 B	ICPOES
Boron	3125 B	ICPMS
Bromate	4110 D	IC
Cadmium	3120 B	ICPOES
Cadmium	3125 B	ICPMS
Calcium	3120 B	ICPOES
Calcium	3125 B	ICPMS
Chlorate	4110 D	IC
Chlorine	4500-Cl G	DPDLC
Chlorite	4110 D	IC
Chromium	3120 B	ICPOES
Chromium	3125 B	ICPMS
Copper	3120 B	ICPOES
Copper	3125 B	ICPMS
Cyanide (total)	4500-CN C	DISTIL
Cyanide (total)	ASTM D2036	COLOR
Cyanide (free)	ASTM D2036	COLOR
Fluoride	4500-F D	SPAD
Fluoride	4110 B	IC
Lead	3120 B	ICPOES
Lead	3125 B	ICPMS
Manganese	3120 B	ICPOES
Manganese	3125 B	ICPMS
Mercury	3125 B	ICPMS
Molybdenum	3125 B	ICPMS
Nickel	3120 B	ICPOES
Nickel	3125 B	ICPMS
Nitrate	4500-NO ₃ I	CDRD (FIA)
Nitrate	4110 B	IC
Nitrite	4110 B	IC
Nitrite	4500-NO ₂ B	DIAZ
Selenium	3120 B	ICPOES
Selenium	3125 B	ICPMS

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Uranium 3125 B ICPMS

ORGANIC DETERMINANDS

In accordance with in-house methods based on USEPA methods unless otherwise indicated

Determinand	Method Reference	Method Short Code
Acrylamide	8032A	LLEGCM
Alachlor	512.2	LLEGCM
Alachlor	In-house	LLE LC-MS/MS
Aldicarb	512.2	LLEGCM
Aldicarb	512.2	LLE GC-MS/MS
Aldicarb	In-house	LLE LC-MS/MS
Aldrin / Dieldrin	512.2	LLEGCM
Atrazine	512.2	LLEGCM
Atrazine	In-house	LLE LC-MS/MS
Azinphos methyl	512.2	LLE GC-MS/MS
Azinphos methyl	In-house	LLE LC-MS/MS
Benzene	8260	SHSGCM
Benzo(a)pyrene	512.2	LLEGCM
Bromacil	512.2	LLEGCM
Bromodichloromethane	8260	SHSGCM
Bromoform	8260	SHSGCM
Carbofuran	512.2	LLEGCM
Carbofuran	In-house	LLE LC-MS/MS
Carbon tetrachloride	8260	SHSGCM
Chlordane	512.2	LLEGCM
Chloroform	8260	SHSGCM
Chlorpyrifos	512.2	LLEGCM
Chlorpyrifos	In-house	LLE LC-MS/MS
Chlorotoluron	512.2	LLE GC-MS/MS
Cyanazine	512.2	LLEGCM
2,4-DB	In-house	LC-MS/MS
DDT and isomers	512.2	LLEGCM
1,2-Dibromo-3-chloropropane	8260	SHSGCM
Dibromochloromethane	8260	SHSGCM
1,2-Dibromoethane	8260	SHSGCM
Dichloroprop	In-house	LC-MS/MS
1,2-Dichlorobenzene	8260	SHSGCM
1,4-Dichlorobenzene	8260	SHSGCM
1,2-Dichloroethane	8260	SHSGCM
1,2-Dichloroethene	8260	SHSGCM
Dichloromethane	8260	SHSGCM
2,4-Dichlorophenol	In-house	LC-MS/MS
1,2-Dichloropropane	8260	SHSGCM
1,3-Dichloropropene	8260	SHSGCM

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Dimethoate	512.2	LLEGCM
Dimethoate	In-house	LLE LC-MS/MS
Diuron	512.2	LLEGCM
Diuron	512.2	LLE GC-MS/MS
Endrin	512.2	LLEGCM
Epichlorohydrin	In-house	LLE LC-MS/MS
Ethylbenzene	8260	SHSGCM
Fenoprop	In-house	LC-MS/MS
Hexachlorobutadiene	8260	SHSGCM
Hexazinone	512.2	LLEGCM
Hexazinone	In-house	LLE LC-MS/MS
Isoproturon	512.2	LLE GC-MS/MS
Isoproturon	In-house	LLE LC-MS/MS
Lindane	512.2	LLEGCM
MCPA	In-house	LC-MS/MS
Mecoprop	In-house	LC-MS/MS
Metalaxyl	512.2	LLEGCM
Metalaxyl	In-house	LLE LC-MS/MS
Methoxychlor	512.2	LLEGCM
Metolachlor	512.2	LLEGCM
Metribuzin	512.2	LLEGCM
Metribuzin	In-house	LLE LC-MS/MS
Molinate	512.2	LLEGCM
Molinate	512.2	LLE GC-MS/MS
Oryzalin	512.2	LLEGCM
Oxadiazon	512.2	LLEGCM
Pendimethalin	512.2	LLEGCM
Pendimethalin	In-house	LLE LC-MS/MS
Pentachlorophenol	In-house	LC-MS/MS
Picloram	In-house	LC-MS/MS
Pirimiphos methyl	512.2	LLEGCM
Pirimisulfuron methyl	512.2	LLE GC-MS/MS
Procymidone	512.2	LLEGCM
Propazine	512.2	LLEGCM
Pyriproxifen	512.2	LLE GC-MS/MS
Pyriproxifen	In-house	LLE LC-MS/MS
Simazine	512.2	LLEGCM
Simazine	In-house	LLE LC-MS/MS
Styrene	8260	SHSGCM
2,4,5-T	In-house	LC-MS/MS
Terbacil	512.2	LLEGCM
Terbutylazine	512.2	LLEGCM
Terbutylazine	In-house	LLE LC-MS/MS
Tetrachloroethene	8260	SHSGCM
Thiabendazole	512.2	LLE GC-MS/MS
Toluene	8260	SHSGCM
Trichloroethene	8260	SHSGCM
Triclopyr	In-house	LC-MS/MS

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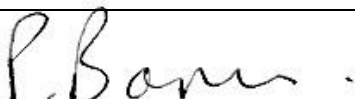
Trifluralin	512.2	LLEGCM
Trihalomethanes		CALCULATION
Vinyl chloride	8260	SHSGCM
Xylenes	8260	SHSGCM

AESTHETIC DETERMINANDS

In accordance with APHA Standard Methods for the Examination of Water and Wastewater (Online Edition) except where otherwise indicated

Determinand	Method Reference
Aluminium	3120 B
Aluminium	3125 B
Ammonia	4500-NH ₃ H (modified)
Calcium Hardness	3500-Ca B
Chloride	4500-Cl B
Chloride	4110 B
Colour @ 455nm	2120 C (modified)
Copper	3120 B
Copper	3125 B
1,2-Dichlorobenzene	EPA 8260 (SHSGCM)
1,4-Dichlorobenzene	EPA 8260 (SHSGCM)
Ethylbenzene	EPA 8260 (SHSGCM)
Hardness (total)	2340 C
Iron	3120 B
Iron	3125 B
Magnesium	3120 B
Manganese	3120 B
Manganese	3125 B
Monochlorobenzene	EPA 8260 (SHSGCM)
Sodium	3120 B
Sodium	3125 B
Sulphate	4110 B
Toluene	EPA 8260 (SHSGCM)
Total dissolved solids	2540 C
Trichlorobenzenes (total)	CALCULATION
1,2,3-Trichlorobenzene	EPA 8260 (SHSGCM)
1,2,4-Trichlorobenzene	EPA 8260 (SHSGCM)
1,3,5-Trichlorobenzene	EPA 8260 (SHSGCM)
Turbidity	2130 B
Xylenes	EPA 8260 (SHSGCM)
Zinc	3120 B
Zinc	3125 B

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